department of science and innovation socio economic development,
-**1 .programme administration technology innovation international cooperation**
Gov , city power and St peace college
Programme, exposition science

-2.programme research development support :
St peace college lecture and learner development under planning.
Department high Education vs saqa vs qcto,vs seta research resolved time table examination Assessment police , Portfolio documents systems integrity police academic,

-**2.1. purpose: innovation practical and theoretical. science and technology science national** trade factor outcome time table trading examination and qualifition framework national diploma n engineering and council trade sector authority , innovation system outcomes empower system subject entry phase learning and lecture teach science exhibition generation technology Assessment police ,and Engineering assessment trade machine and trade control system process project system control evaluation system
2.1.2 knowledge: innovation practical and theoretical trade technology electrical engineering Electrotechnolgy empower value are recreation orientation maximum, value tax , return studies and Examine electro technology engineering time table assessment
Completed research laniaries system technology value entry lecture exam nated vs. saqa vs qcto linearism system electro technology power fundamental job duty job maximum, job value minimum trade operational, task minim component system,
-Job duty cycle system value : learner lecture framework qualifition and occupation trade job value salary resource human maximum fiscality minimum technology components system : sciences natural system investigation design minimum agreement value job trade module,task minimum ,task minimum service require trading sectors and maximum sectoral electrotechnology trading components
Value financial tax system:
2.2.3: strategies: strategies phasing module tasking curriculum system implantation levels grading lecture
objectivity:
The trading lecture and learning system engineering science electrical subject and technology electrical ,electro technology ,education technology System outcome , trading education technology systems power factor demand system education , efficiency system assignment power objectivity module task , maximize inventories psychopedagogie metric system month week of observations learner form test assessment assignment control tpm

maintence meeting product control technology goal .

-**1.2.3.4: development humain generation: system teaches sector organisations technology rate value maximum ra**te demand factor admnise value ask required report system value.
-**1.2.5.component: trading lecture used company manufacture relate system Industrial Education system** intelligence management system information ,education computing control system switch and material support command disposition component manufacturers
Numerical time table framework regulatory Education trade relate handbook guideline information and orientation integrative system component handbook relate maintenance update , upgrade system
-1.2.6: basic science infrastructure: implantation of research innovation mission equipment
College equipment framework theory practical lab workshop workplace implantation department gov system ,more

Inovation,tax incentives,,
Meeting request

-**National energie regulatory of South Africa mandatory electricity piped , invitation me minister tribunal**,,

Meeting electrical conformance board design installer regulatority Cox competition b

Meeting salt .dmrg stick ,sale revenue power plant fuel used national treasure sars department of energy mandatory ensure private sector participr in power generation ,
Meet national skill fund,, national research fund ,,
Visa permit

partment of science and innovation socio economic development,

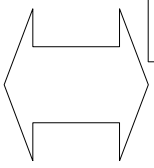
-1 .programme administration technology innovation international cooperation

Gov , city power and St peace college

Programe, exposition science

-2.programme research development support :

St peace college lecture and learner development under planing. Department high Education vs saqa vs qcto,vs seta research resolved time table examination Assessment police , Portofilio documents systeme integrity police academic.



-2.1. purpose : inovation practical and theoretical. science and technology science national trade factor outcome time table trading examination and qualifition framework national diploma n engineering and council trade sector authority , inovation system outcomes empower system subject entry phase learning and lecture teach science exhibition generation technology Assessment police ,and Engineering assessment trade machine and trade control system process project system controle

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Examin electrotechnology engineering time table assessment

Completed research linearise system technology value entry lecture exam nated vs saqa vs qcto linearise system electrotechnology power fundamental job duty job maximum,job value minimum trade operational,task minim component system,

-Job duty cycle system value : learner lecture framework qualifition and occupation trade job value salary resource humain maximum fiscality minimum technology components system : sciences natural system investigation design minimum agreement value job trade module,task minimum ,task minimum service require trading sectors and maximum sectoral electrotechnology trading components

-

Value financial tax system:

2.2.3: strategies: strategies phasing module tasking circulum system implentation levels grading lecture

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Numerical time table framework regulatority Education trade relate handbook guideline information and orientation integrative system component handbook

-1.2.6: basic scieny infractuture: implentation of research inovation mission equipment

College equipment framework theory practical lab workshop workplace

Inovation,tax incentives,,

Meeting request

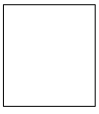
National energie regulatority of South Africa mandatory electricity piped , invitation

Meeting electrical conformance board design installer regulatority Cox competition b

Meeting salt .dmrg stick ,sale revenue npower plant fuel used national treasure sars department of energy mandatory ensure private sector participr in power

Visa permit

Technology design



engineering,systems engineering,

.project

1..project

-High school theory practice week grade

Theory labo work shop high school ,

-

- university theory practice workshop lab

- instituts case studies research

-college workshop workplace theory compagny workshop experience career

: projection design analyse

-Project Principe design

-project diagram laballed sche

-Projects diagrams power circuit

-Project commander control wa

-Project experience measure te

.diagramme algorigramme logigrame organigrame ,diagrammed sequential ,

Concept design planogramme, algorithm . G

- purpose
engineering,

1.initial sequence implentation

1. purpose of plan. Dhet yes

key switch contact

-aim of plan yes,

-objectivity plan yes

- key delivery area

2.implementation monitoring of teaching

--purpose yes

- trade test QCTO license yes ,let /lep

3purpose.

-4 purpose and evaluation saqa log

- 5where appropriate , undertake manufacture maintence pane

7

7.purpose dhet education career bridge stabi base phase job paychomoty yes

-8 dhet ,vs sasseta accreditation Assessment mil STD , safety training merseta required gasst .

-8.2

9. purpose manufacture relate theory practical componey equipment trade ton max chain load diameter trade code objy credit theory vs practice test manufacture yes,

-10.purpose dhet national electronics fundamental engineering level and License trade engineering.

Compare low test methode notion Hopkins

-Purpose wiring electric wire way premise protection line fire

-10.2 purpose engineering science module completed algebraic linearing foindamental system process fabric y yes,

-engineering science theory fundamental research step y learner plan lecture plan

11.pupose instrument measure trade engineering e measure control lab ,

-1.2 dhet vs saqa practical work experience lab workshop workplace Industrial trade purpose machine manufacturers..

-13. Dhet ncv nated lect vs saqa subject electrical principle practice , nqf level,

14.puroae dhet et vs seta sasseta skill programme management electronics,securtgradd assess threat for installation ,

15.purose student information system,stui managy system revolutionized, and steing wit,cost effey interactive,collect.

-1intialisation : start

-implementation circulum knowledge circulum policy engineering planing product improvement contractual agreement e registerer and consultant e electrique Computer. Yes

2.purpose ask factor career outcome transition phase learner phase exhibition phases teach beginning. Yes

3.method material and equipment scientific guidelines assess formation Summative rubric tools assessment learner and teacher time e. Yes

4.result nantecht and minint what is technology wath are day of mining how is nanotechnology energy. Yes

1.conte t engineering electrical career project Project officer outcom e legislation government engineering gov city .yes

2.2 abstract job work career category job skills.yes

3. Entry Engineering electrical trade infractuture implentation support. Yes

4. Purpose asssessor .vyes

4.1 case study how make calculation for a distribution substation.

Yes

- 5.requirement substation , 5 purpose and required , advance basic.

Yes

6. Requirements power station and central system appliances TV reliable ,

Yes

8.requirement Dimensioning workplace.

Yes

8.2 fonctionalite principal .

Note cacul office , bureau studi ,sabs ,ECB,realii calcul test

Yes

9.reauired domain application distribution network .

Yes

1

Yes

1

Yes

1

power requirements.

Yes

16. Required functions function.

Yes

-Requirements flow down from level1.system design processes1.1 requirements definition process ,1.1.1stskehold expectation definition yes1.1.3technical soluti

-

Algorigramme, logigram

-Key lock,,

-Equation key equation lock
comparable logic

K1.1 x +k.2.1+kn ..= k implentation

K1.1x+k.2.1+kn..=k.implementation

Add. Method value :

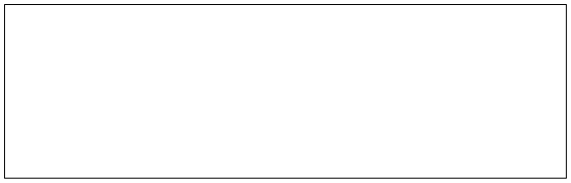
Substitute value: key

Compare value :

Step operator ..

_____

Way key switch



K.1.

Outcome, education technology technology electrique ,electrotechnology EIC

EIC : electrotechnology : electrical international commissioner rules ,

Commissioner electrical international,commission energy,,commission ligthning,, system international physic ,chemical ,,

Construction electric association ,information rules

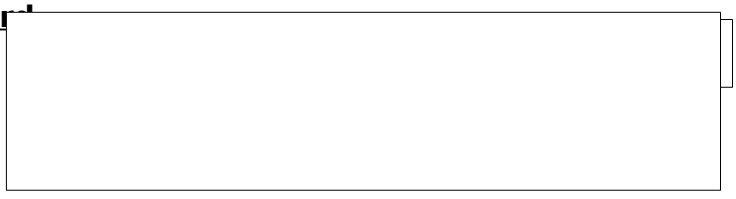
Labels,

Power empower : fundamental system, process implentation phase operationel step task project:

Schematic diagram: principal game

Technologie ,supplies power purpose power : rules attorney: machine system control process Project fabric.

- power commissioning code standard



Value nominal operationel work :

-value minimal operationel work labour:

-value value cut operationel ,

Value selected , choice basic advanced purpose diagram design Key lock contacting value outcom technologie are Cree.

-principle schematic: schedule

Orientation projection flow share line manager system process purpose horizontal vertical team line flow

-Purpose purpose : 1.1,,1.2,,1.3,,1

5.. operationel task ,logic diagram logigram orientation planing supervisor

- design organigrame:

Way key switch organisation supervisor plan schedule schematic,4 way switch suplie pov

-Organigrame schematic blocks,convert info

,,Organigrame board metering , logigram , a distribution system design .

- equation logic : state logic ,0or 1, voltage 2

  F1=0, F2=0,F3=0, circuit breaker MCB

MCB1=0,MCB2=0,MCB=3, Line 1,2,3 state =

F1+F2+F3, ,metering kWh=0 , kvarh=0,KVA

Circuit breaker ,over load rcdbo =0,

Db box system db=0, operationel technologi

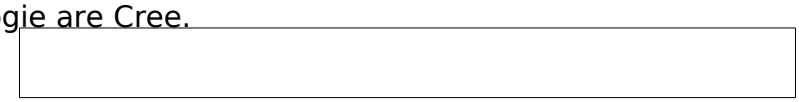
Equation logic

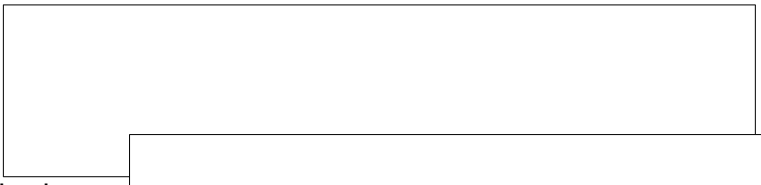
Db= F1.+MCB+kvar+kwh

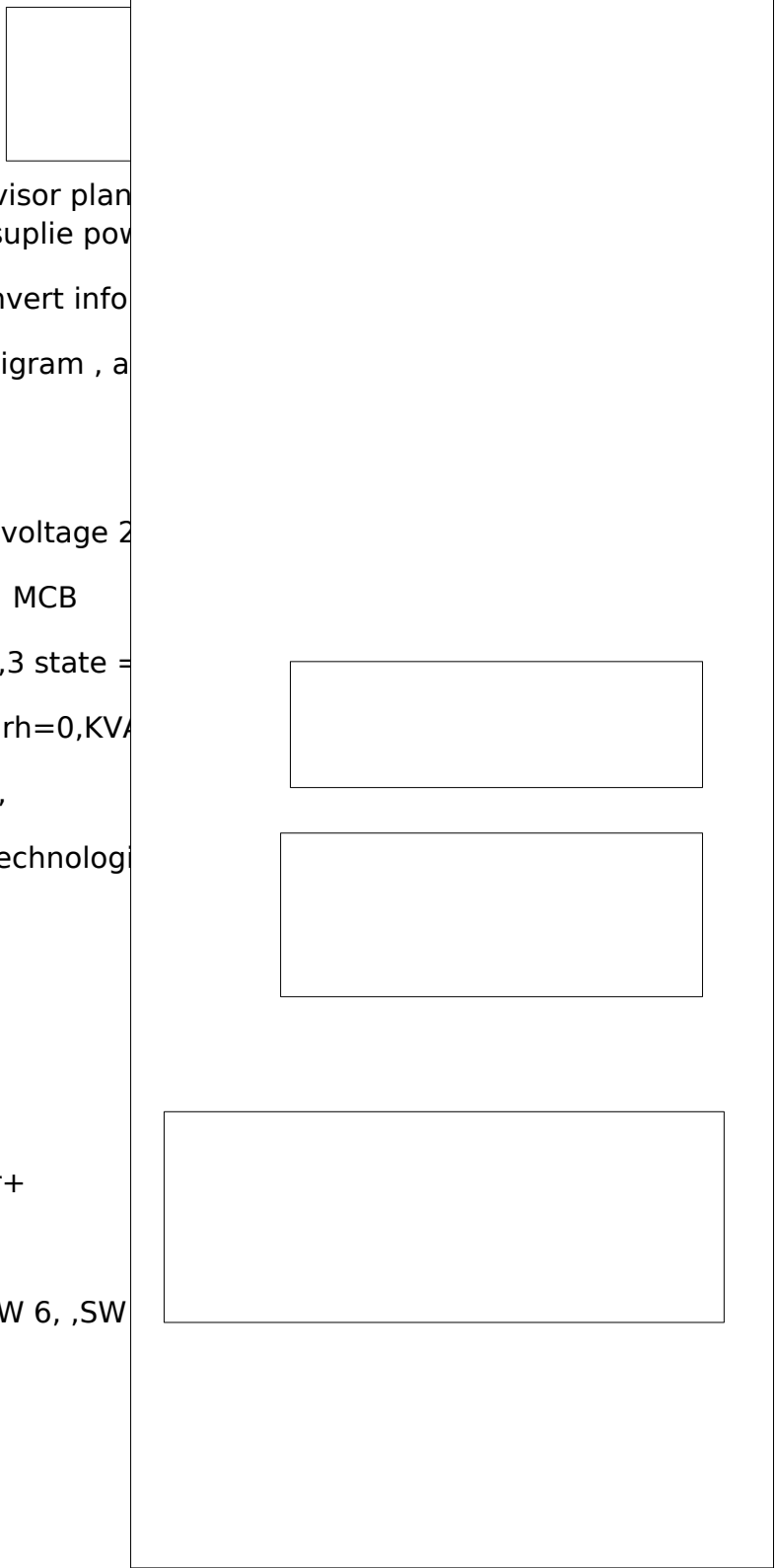
Power supply,

Db = lights+ outlet socket+guyzer+

Sw1=1 light = 1, sw2=1,sw3=1,SW 6, ,SW





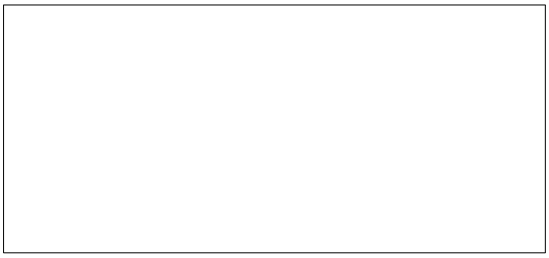


- organisation

dol ,reverse. Load.

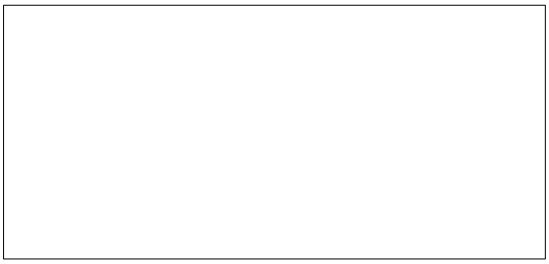
Km1= F1+so+(S1+km1). Motor

Km2=F2+s0(S2+km2)..



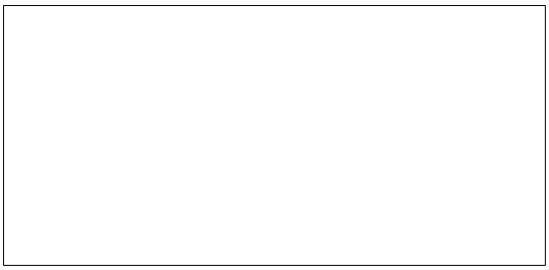
K1m = F1+so(S1+km1).km2

K2m=f2+so(S2+km2).km1



K start= F1+so(S1+km1).k d

K delta=F2+so(S1+km2).ks

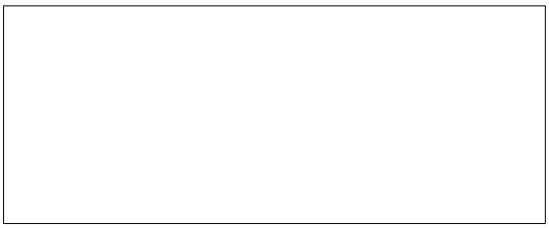


On line generator ,,transformer

transmitters

Kgenerator =F1+so(S1+kg1).kg 2

Kgenerator=F2+so(s2+kg2).kg.2



Transformer = F,=,1,(Q+break+Q).(Q+break+Q)+transfo + Q+Brak+Q+

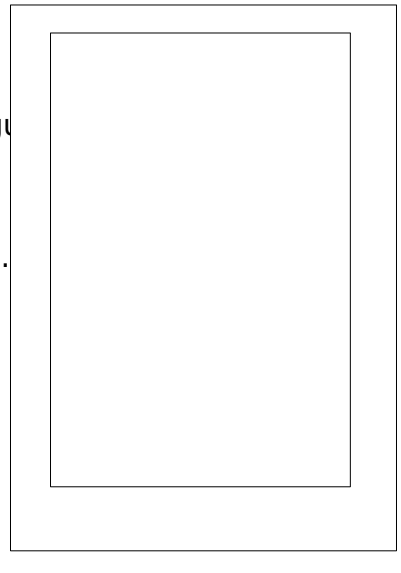
-Algorigramme: operationel system

Initial f1.start ..F1=1 yes , or not initialisation,F2=1,yes ,or egu

Initiation , f 3=1,yes or equal=0 initial ,

.,SW = 1:,yes ,,km = 1, yes,kg=1 yes step or reininitialisatiin .

Db box = ,1 ,,D's=,1 activation atstem



End procedure ,,

Logigramme algebraic boolen ,

Coventer

Binaire 2. 0,1,decimal base 10, hexadecimal 16,

Input / out put logic byt

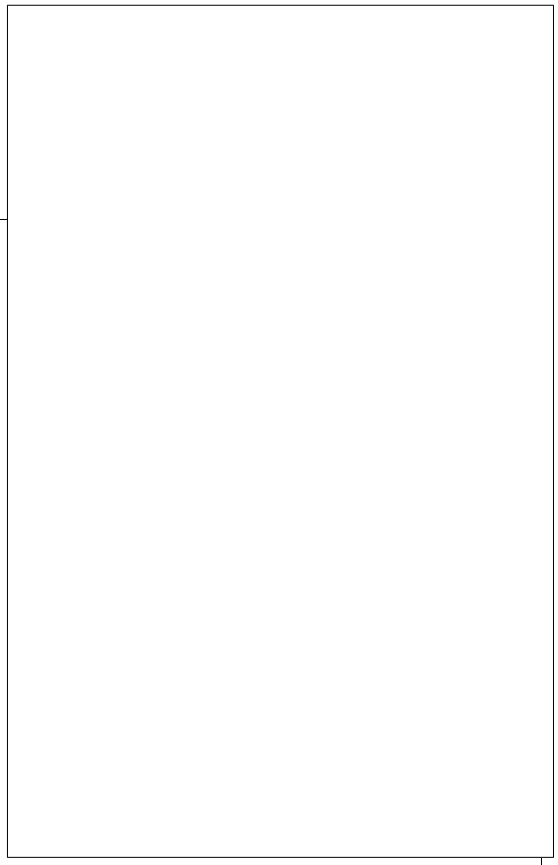
Sw1=0,sw2=0,sw3=0,SW=0/ 000

Base 10,,base 16

S1=0,S2=0,S3=0, S4=0,=0/0000

Km=0,km=0,km=o,km=0,/0000

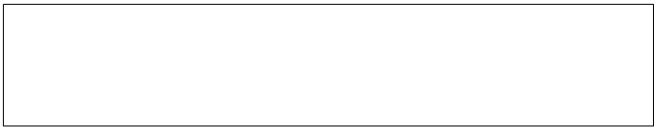
Kg=0,kg=0,km=0,Km=0/ 0000



,

Fortran

CLS program,PLC



10.Print sw1

20.Print sw2

30.print sw3

40.print sw4

50 print S1,

60 print S2

70 print S3

80 print s4

90 print km

100 .print kg

110.print t

Input ="sw1", sw2,sw3,sw4,Se

Input = S1, S2,S4,S4,,

Input = km,

Input = kg

If " sw1"= 1, l =

Else

Show

String

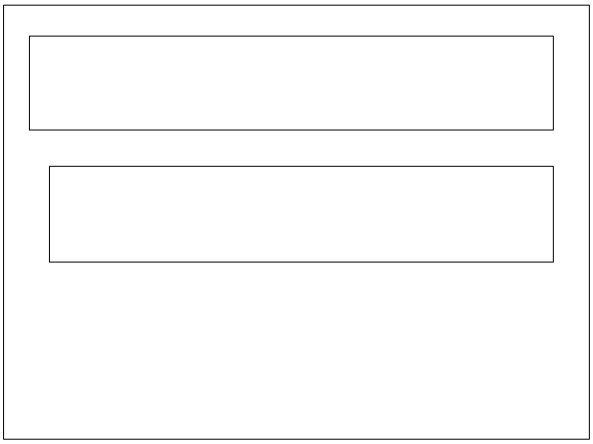
Robotic research operationel

Algo pin address value scater position

_-

-

Analyse design ,analyse circuit.



Sequence , circulum purpose

- call key display sw1,sw2,sw3,sw4

-call and recall ,db ,Q

- call and recall current sw1,sw2,sw4

- call way key

+ Call km,call kg ,call.

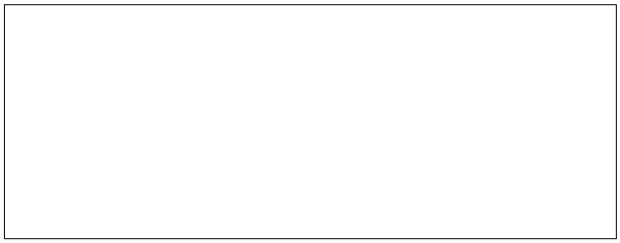
-Module call and recall sw1 task ,call task ,sw2 ,call task sw1 required contact task sw1 = 0, sw1=0,

Task km

Call pression pressosta kp,call manosta ,call detector call,termomete kt Relay

Current exp

-Module calculator operationel, call task ,call , sw1 operationel logic add, substraction , multiplication,division task



Module inverter ,module multiplex ,

Integration circuit module switch

,

Call pression under pressure,

Call , module calcule step task ,S2,S2,s3s4,sequence pression ,selector

Call pin address ,transistor thyristor comande task ,

Call module matrices

,Display module.. operationel system call recall task ,multi task multi use, mmono task, call windows,, operating system call motor lecture current disc tape magnetic electromagnetic memory card , reader card call ,sub system